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ACRONYMS AND ABBREVIATIONS

ARAR applicable or relevant and appropriate requirement

ASR Archives Search Report

BAAQMD Bay Area Air Quality Management District
BATF Bureau of Alcohol, Tobacco, and Firearms

bgs below ground surface

BIP blow in place

CAAQS California Ambient Air Quality Standards
Cal/EPA California Environmental Protection Agency

Cal/OSHA California Occupational Safety and Health Administration

CCR California Code of Regulations

CDFG California Department of Fish and Game

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CFR Code of Federal Regulations

CSP California State Plane

° degrees

DAQ Data Acquisition DC direct current

DDESB Department of Defense Explosives Safety Board

DFW Definable Features of Work

DGPS Differential Global Positioning System

DID Data Item Description

DNT dinitrotoluene

DOD Department of Defense

DOT Department of Transportation

DTSC Department of Toxic Substances Control EE/CA engineering evaluation/cost analysis

EIR Environmental Impact Report

EM electromagnetic

EOD Explosive Ordnance Disposal
EPA Environmental Protection Agency
ESS Explosive Safety Submission

FS Feasibility Study

GIS Geographic Information System
GPS Global Positioning System

Granite Granite Management Corporation
GTM Geophysical Technical Manager

H&SC Health and Safety Code HDPE high-density polyethylene

HE high explosive

HSO Health and Safety Officer

Hz Hertz

mg/m³ milligrams per cubic meter

mm millimeter

MOA Memorandum of Agreement

MPA man-portable adjunct

mph miles per hour

MPM Most Probable Munition

MSA minimum separation area

MSAP Minimum Separation Area Notification and Implementation Plan

MSD minimum separation distance

MSL mean sea level

MTADS Multi-sensor Towed-Array Detection System

NAD83 North American Datum of 1983 NAD88 North American Datum of 1988

NCP National Oil and Hazardous Substance Pollution Contingency Plan

NCR Nonconformance Report NEW Net Explosive Weight

NORCAL Geophysical Consultants, Inc.

NRL Naval Research Laboratory
OAO Ordnance Accountability Officer
OB/OD open burn/open detonation

ODDS Ordnance Detection and Discrimination Study

OE ordnance and explosives

OESM Ordnance and Explosives Safety Manager

O&M operation and maintenance

OSHA Occupational Safety and Health Administration

PCAS Project Conformance Audit Schedule

PM₁₀ particulate matter equal to or less than 10 microns in diameter

PPP Public Participation Plan
PR purchase requisition
QA quality assurance
QC quality control

QDN Quality Deficiency Notice RAO remedial action objective RAP Remedial Action Plan

RAW Remedial Action Work Plan Investigation RCRA Resource Conservation and Recovery Act

RDD Remedial Design Document
RI Remedial Investigation
RRR Records Research Report

RTK real-time kinematic

RWQCB Regional Water Quality Control Board

SARA Superfund Amendments and Reauthorization Act

SCM site conceptual model

SFBAAB San Francisco Bay Area Air Basin

S/N signal-to-noise

SSHP Site-Specific Safety and Health Plan

SSO Site Safety Officer
SUXOS Senior UXO Supervisor

SWPPP Storm Water Pollution Prevention Plan

TDEM time domain electromagnetic

TMF total magnetic field TNT trinitrotoluene

USACE U.S. Army Corps of Engineers

U.S.C. U.S. Code

USFWS U.S. Fish and Wildlife Service

UST underground storage tank
UXO unexploded ordnance
VSD voluntary safety distance

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GLOSSARY OF TERMS

Anomaly. A significant deviation from the background geophysical response indicative of a buried item that might be OE.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Federal law (Public Law 96-510 and codified as 42 U.S. Code [U.S.C.] 9601 et. seq.; and 26 U.S.C.

- 8 4611, 4612, 4661, 4662, 4671, and 4672) passed on December 11, 1980, which provides a series of
- 9 programs to address clean-up of hazardous waste disposal and spill sites. CERCLA has been
- 10 modified several times, most significantly in 1986 by the Superfund Amendments and
- 11 Reauthorization Act (SARA).

Cultural resources. Prehistoric and historic districts, sites, buildings, objects, or any other physical evidence of human activity considered important to a culture, subculture, or a community for scientific, traditional, religious, or any other reason.

Demilitarized. The mutilation, cutting, crushing, scrapping, melting, burning, or other alteration of military equipment or material designed to prevent it from being used for its originally intended military purpose.

Detonation. A chemical reaction that propagates with such rapidity that the rate of advance of the reaction zone into the unreacted material exceeds the velocity of sound and explodes.

Dig team. A team of UXO specialists that search for and excavate geophysical anomaly sources below the ground surface.

Electromagnetic (EM). A geophysical survey instrument that utilizes the rate at which EM signals in the ground decrease to detect and map metallic objects that are buried near ground level (less than 10 feet below ground surface).

Explosive Ordnance Disposal (EOD). The detection, identification, field evaluation, rendering safe, recovery, evacuation, and disposal of explosive ordnance that has been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material.

Exposure. An "exposure" to OE is defined as occurring when a person traversing or working on the site is in "close proximity" to ordnance, whether or not the person knows the ordnance is present (it could be buried). An accident or injury is not necessarily assumed to occur when an exposure takes place. The definition of "close proximity" varies depending on the specific activity.

Fuze. A device with explosive components designed to initiate a train of fire or detonation in an item of ammunition by an action such as hydrostatic pressure, electrical energy, chemical action, impact, mechanical time, or a combination of these.

Inert. Ordnance, or components thereof, that contains no explosives, pyrotechnic, or chemical agents.

Live. A slang term indicating ordnance containing explosives or active chemicals.

Memorandum of Agreement. A record between government agencies agreeing upon a specific action item.

Military munitions. A term used to define all types of both conventional and chemical ammunition products and their components, produced by or for the military for national defense and security.

Minimum Separation Distance (MSD). A safety area surrounding an OE excavation site from which all but UXO-qualified personnel are excluded while excavation activities are being performed. Excavation operations halt once unauthorized personnel enter the MSD area and resume once those individuals exit the area. The MSD may vary in size depending on the suspected OE under investigation.

National Oil and Hazardous Substance Pollution Contingency Plan (NCP). The NCP is the Environmental Protection Agency's (EPA's) blueprint for implementing a Superfund law that addresses the legal requirements for responding to a potential hazard at a CERCLA site. The plan defines responsibilities and activities of affected parties within the site (which could include a Superfund site). The NCP is also the process used to address non-Superfund-contaminated sites.

Non-OE. Items that are non-ordnance-related including, but not limited to, wooden boxes, wire, banding material, trash, auto parts, rocks, and nails. Geological and terrain features causing geophysical anomalies are non-OE items.

OE clearance. The surface or subsurface removal of identified OE from a defined area.

OE-Like Item. An item that has a similar geophysical signature to an OE item.

OE scrap. Includes those items that are fragments of functioned ordnance, as designed or intentionally destroyed, and that contain no explosive or other items of a dangerous nature. OE scrap is inert and does not pose a safety risk.

Ordnance and explosives (OE). OE consists of either: (1) Ammunition, ammunition components, chemical or biological warfare material, or explosives that have been fired, armed or deployed, or abandoned, expelled from demolition pits or burning pads, lost, discarded, buried, or fired; such ammunition, ammunition components, and explosives are no longer under accountable record control of any Department of Defense organization or activity; OR (2) Explosive Soil (see definition under "Explosive Soil").

Quality Assurance (QA). QA assures that quality control is working and that the end product complies with the quality established by this remedial design.

Quality Control (QC). QC is the performance of tasks that verify that the remediation is performed according to plans and specifications.

Risk. Exposures to the chance of injury or loss, or a function of the probability that an accident (or adverse situation) will occur within a certain time, as well as the accident's consequences to people, property, or the environment.

4 5 6	State plane coordinates. A mapping system that measures in distance the position or coordinates of objects north and east of a known position in any given state.
7 8 9	Subsurface OE investigation. Consists of excavating to a prescribed depth to identify potential subsurface OE.
10 11 12	Surface clearance. The process in which OE are visually searched for and removed from the ground surface, without conducting any intrusive activities, and properly disposed of.
13 14 15 16 17	Unexploded Ordnance (UXO). Military munitions that have been primed, fuzed, armed, or otherwise prepared for action, and have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installation, personnel, or material and remain unexploded either by malfunction, design, or any other cause.

Small arms rounds. Small arms ammunition consists of cartridges and shells used in rifles, pistols,

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machine guns, and shotguns.

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